

Atty. Docket No. KIK01 P-322

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 2863
Examiner : Xiuquin Sun
Applicant : Kenichiro Kobayashi
Appln. No. : 09/838,905
Filing Date : April 20, 2001
Confirmation No. : 1673
For : METHOD AND APPARATUS TO MEASURE AMOUNT OF
MOVEMENT USING GRANULAR SPECK PATTERN
GENERATED BY REFLECTING LASER BEAM

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

RESPONSE

In response to the Office Action mailed December 2, 2002, Applicant responds as follows.

PLS ENTER UPON NOTICE OF APPEAL
In the Claims:

5 04/14/02
Please amend claims 3, 9, 13 and 15 as follows.

B1
3. (Amended) The apparatus as defined in claim 2 and further including a light shield positioned in front of said line sensor.

B2
9. (Amended) The apparatus as defined in claim 8 and further including a light shield positioned in front of said line sensor.

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B3
13. (Twice Amended) A lensless apparatus for measuring the amount which an object to be measured has moved in a plane and back and forth using a granular speck pattern generated by a reflecting laser beam, said apparatus comprising:

a collimated light source for generating a granular speck pattern corresponding to the surface of an object to be measured;

a line sensor positioned to detect directly without a lens said granular speck pattern as an index; and